

# US Green Economy Report Series

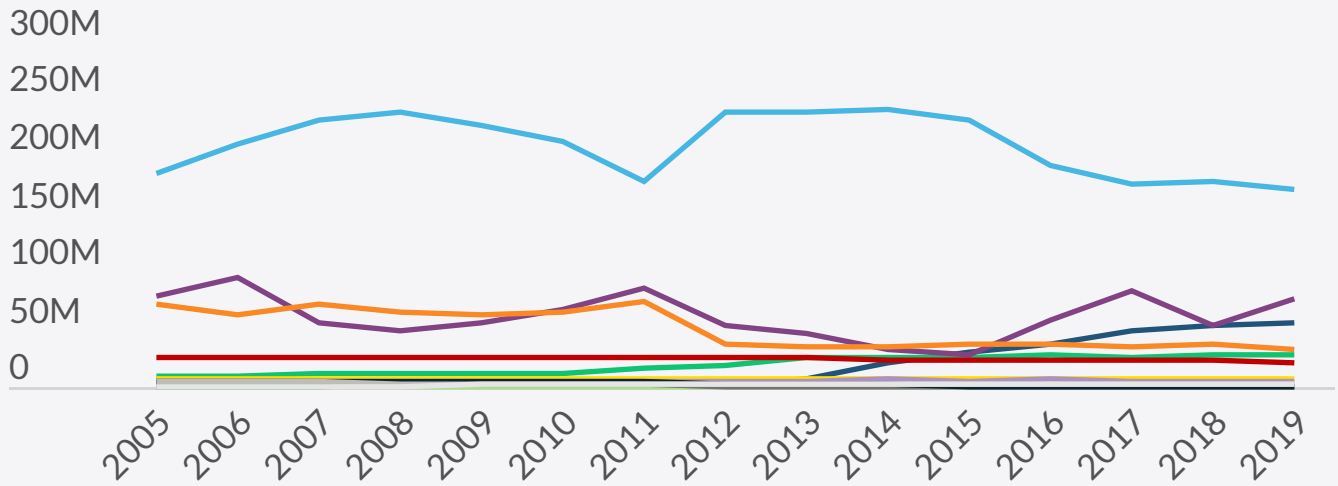
## Case Study - California

California's Global Warming Solutions Act of 2006 established the state's trajectory toward ambitious emissions-reduction targets and the state has continually built on this law. California considered the country's leader in climate action for decades, aimed to reach 1990 levels for greenhouse gas emissions by 2020; and is now targeting 40 percent below 1990 levels by 2030 and carbon neutrality by 2045. It established a "Renewables Portfolio Standard" in 2002 and subsequently accelerated this over the years as part of one of the most ambitious clean energy programmes in the country. California will require its electricity sector to reach clean energy targets of 60 percent of sales by 2030 and 100 percent by 2045. In the transportation sector, California aims for 5 million zero-emissions vehicles and 250,000 charging stations by 2030, and the phase-out of sales of vehicles with internal combustion engines by 2035. California's former Governor Jerry Brown was a co-founder of the US Climate Alliance. The state is a member of 17 regional and national climate agreements and has signed 64 bilateral agreements with other countries.

### NEAR-TERM OPPORTUNITIES: STATE OUTLOOK BY TECHNOLOGY

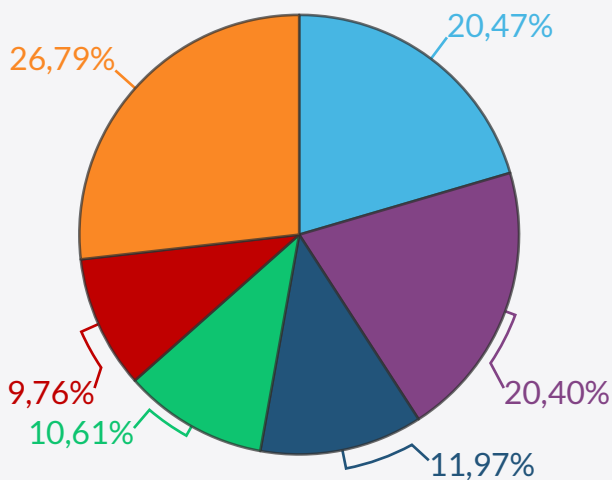
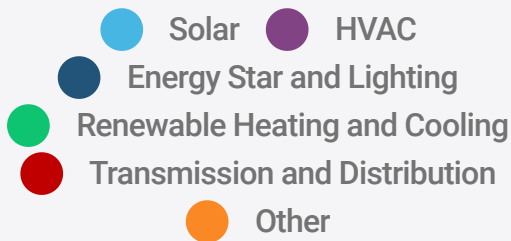
Technology	Overview	Outlook
Offshore Wind	California's offshore wind projects lag behind East Coast peers, due to coastal water depths and military operations.	
Green Consultancy	This sector is promised strong growth by the state's renewable energy potential of 21,984,738 GWh.	
Electric Vehicles	California ranks 1st nationally on the ACEEE EV Scorecard and all new cars sold in state by 2035 must be zero-emission vehicles.	
Energy Efficiency	California ranks 1st nationally on ACEEE's 2020 State Energy Efficiency Scorecard and has 97 financial incentive programs.	
Grid Modernisation	California ranks 1st nationally in the 2018 Grid Modernization Index and has strong policy and financial support for the sector.	
Energy Storage	California leads in the utility-scale energy storage market and has a statewide procurement target that increases every two years.	
Waste To Energy	California is ranked 1st nationally for biogas production potential and 2nd in the country in utility-scale generation from biomass	
Hydrogen	With 50 policies and incentives, California is the country's leader in hydrogen fueling infrastructure, policy and practices.	
CCUS	CCUS could reduce CO2 emissions in the state by up to 15 percent but there are no operational projects in the state.	

## ELECTRICITY GENERATION BY SOURCE IN MW (EIA)



## CLEAN ENERGY JOBS

### Top Five Sectors (2019)



## 2021 - 2025 JOBS PROJECTIONS

### Full-Time Employee (FTE) Adds



37,751-53,071

Energy Efficiency FTEs Added



28,592-33,397

Energy Storage FTEs Added



22,448

Clean Vehicles FTEs Added

**609,845** clean energy jobs (2019), **3.44%** of total state jobs